

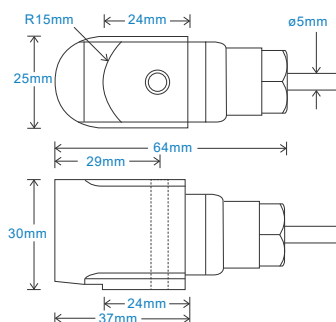
### AC acceleration and temperature output via PUR Cable

## Key Features

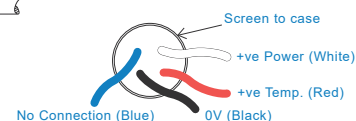
- Temperature output
- Side entry for easy access
- Waterproof
- Resistant to oil

## Industries

Building services, Pulp and Paper,  
Mining, Metals, Utilities, Automotive,  
Water, Pharmaceutical



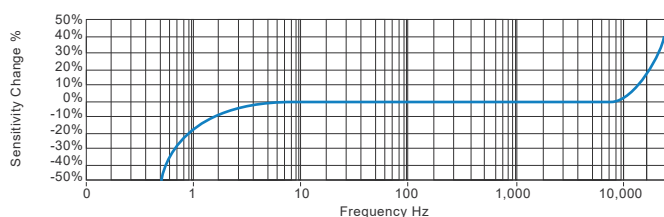
### Connection Details



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$	Mounting Bolt Provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	PUR - length to be specified with order
Temperature Output	10 mV/°C standard 100°C - Option 150°C	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	100 metres max (10 bar)

Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-30 to 90°C
Electrical Noise	0.1mg max	Sealing	IP68
Current Range	0.5mA to 8mA	Maximum Shock	5000g
Bias Voltage	10 - 12 Volts DC	EMC	EN61326-1:2013
Settling Time	1 second		
Output Impedance	200 Ohms max.		
Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts		

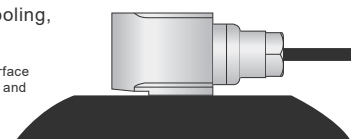
### Typical Frequency Response (at 100mV/g)



## Applications

Fans, Motors, Pumps, Compressors,  
Centrifuges, Conveyors, Air Handlers,  
Gearboxes, Rolls, Dryers, Presses,  
Cooling, VAC, Spindles, Machine Tooling,  
Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



## How To Order

Product Prefix		Product Series					Cable Length (if integral cable)								
HS - Hansford Sensors		150 - Premium Industrial Vibration Sensor					QXX - length specified in metres								
H	S	1	5	0	S	T	X	X	X	X	X	X	X	X	X
Extra Options (if required)				Sensitivity		Range		Resonant Frequency		Cable/Connector			Mounting Threads		
F - Filtered				010 - 10mV/g		±800g		34kHz (2,040kcpm)		01 - PUR			02 - ¼-28" UNF Male		
HT - High Temperature maximum 150°C				030 - 30mV/g		±250g		33kHz (1,980kcpm)		03 - Braided			06 - M6 x 1mm Male		
L - 316L Stainless Steel				050 - 50mV/g		±160g		32kHz (1,920kcpm)		07 - Silicon			08 - M8 x 1.25mm Male		
S - 90° Side Exit				100 - 100mV/g		±80g		30kHz (1,800kcpm)		15 - Flame Retardant					
T - Temperature Output				250 - 250mV/g		±32g		28kHz (1,680kcpm)		52 - 3 Pin MS					
Y - 5% tolerance on sensitivity				500 - 500mV/g		±16g		26kHz (1,560kcpm)		54 - M12					



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We reserve the right to alter the specification of this product without prior notice.

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